POWE		A USTMENT evised 07/14)	FACTORS			CALIFORNIA ENER	GY COMMISSION
		NSTALLATION				CALII OKNIA LINEK	NRCI-LTI-05-E
Power A	Adjustmer	nt Factors					(Page 1 of 5)
Project Name	e:				Enforcement Agency:		Permit Number:
Project Addr	ess:				City:		Zip Code:
	AL INFORI						
DATE OF	BUILDING	PERMIT	PERMIT #				
BUILDIN	NG TYPE	□ Nonr	esidential	☐ High	n-Rise Res (Common Area)	☐ Hotel/Mote	el (Common Area)
PHASE (OF RUCTION	□ New	Construction	☐ Addi	ition	☐ Alteration ☐ Unconditioned	
		NSIBILITY					
the spe		for the energy	_	•	Certificate of Compliance the scope of responsibility	•	Date:
watts of number of the c	a) 2 - Red f a lumina r of watts onditions	ire providing grontrolled as d [in this Certific irements in this	eneral lighting in escribed in TABL ate of Installatio	an area l E 140.6- <i>A</i> n are me	alculating actual indoor Lig listed in TABLE 140.6-A ma A, times (ii) the applicable t]: ail, the installation shall no	ly be reduced by Power Adjustme	the product of (i) the ent Factor (PAF), if all
	m that ap						
PART 1		Certificate Of	Compliance Cori	ectly Fill	ed Out		
					PAF has been correctly doo e building department.	cument on page	2 of NRCC-LTI-02—E
PART 2		Type of PAF					
	Α.	This installation	on qualifies for t	he follow	ving PAFs:		
	meets al	Il of the followi a. The P i, An ar ii. A clas iii. A con iv. A wai	ng requirements artial-ON Occup	: ant Sensi feet enclo e any size	tial-ON Occupant Sensing (ng Control is use in only th osed by floor-to-ceiling pa	e following spac	

The control automatically deactivates all of the lighting power in the area within 30 minutes

The first stage automatically activates between 30-70 percent of the lighting power in the area

□ i.

after the room has been vacated; and

The lighting control is a:

Switching system, or

□ c.

□ d.

□ е.

		FACTORS
PUVVER	ADJUS I	FAUTURS

CAL	IFORNIA ENERGY COMMISSION	ENGLIS COMMONICS

EC-NRC	I-LTI-0	5-E (F	Revised	07/1	4)	CALIFORNIA ENE	RGY COMMISSION
CERTIF	ICATE	OF	INST	٩LLA	TION		NRCI-LTI-05-E
Power	Adjus	tme	nt Fa	ctor	S		(Page 2 of 5)
Project Nam	ne:					Enforcement Agency:	Permit Number:
Project Add	ress:					City:	Zip Code:
					ii. Dimming system; and		
			f.		The second stage manually acti	vates the alternate set of lights; and	
			g.		This manual-ON function is not	t capable of conversion from manual-ON	to automatic-ON
			fun	ction	ality via manual switches or dip	switches; and	
			h.		Switches are located in accorda	nce with Section 130.1(a)	
			i.		Occupants can manually do all	of the following regardless of the sensor	status:
					Activate the alternate set of light	hts; and	
					Activate 100 percent of the ligh	iting power; and	
					Deactivate all of the lights.		
			en p	lan c	•	an occupant sensing control controlling in accordance with TABLE 140.6-A, becau	
			a.		The occupant sensing controls a	are in large open plan offices that are gre	eater than 250 square
			feet	and	:		
					i. One sensor is controlli	ng an area that is no larger than 125 squa	are feet, and the PAF
					used in 0.40		
					ii. One sensor is controlli	ng an area that is from 126 to 250 square	e feet, and the PAF used
					in 0.30		
					iii. One sensor is controlli in 0.20	ng an area that is from 251 to 500 square	e feet, and the PAF used
			b.		This PAF is only being applied o	nly to office areas which contain worksta	ations; and
			c.		Controlled luminaires are only to	those which provide general lighting dire	ctly above the
			con	troll	ed area, or furniture mounted lu	ıminaires that comply with Section 140.6	(a)2 and provide
			gen	eral	lighting directly above the contr	olled area; and	
			d.	مانيد	Qualifying luminaires have been grequirements, as applicable:	n controlled by occupant sensing control	s that meet all of the
			TOIL		•	been equipped by the manufacturer, or	fitted in the field by the
						s to prevent them from being triggered b	
						re been tuned to reduce their sensitivity t	o prevent them from
				_	being triggered by movements	-	o prevene them nom
					,	been installed and adjusted as necessary	to prevent them from
					being triggered by movements		to prevene them nom
	3.		Thia	inct	allation qualifies for the DAE for	a Manual Dimming System or a Multisce	no Drogrammable
		nmin			in TABLE 140.6-A because:	a Marida Diffilling System of a Multisce	THE PTOGRATHINADIE
	וווט		a.	CIII		control that can be manually operated b	ny the user: and
			b.		The space is only of the following		ry the user, and
		_	٧.		i. Hotel/motel	0 -14	
					ii. Restaurant		
					iii. Auditorium		
					iv. Theater		
			C.	_	The type of control and PAF use	ed is one of the following:	
		-	-		,,	0	

A Dimming System with manual dimming and the PAF used is 0.10

□ i.

	7
ENERGY COMMISSION	

CEC-NRCI-LTI-05-E (Revised 07/14)	CALIFORNIA ENER	RGY COMMISSION
CERTIFICATE OF INSTALLATION		NRCI-LTI-05-E
Power Adjustment Factors		(Page 3 of 5)
Project Name:	Enforcement Agency:	Permit Number:
Project Address:	City:	Zip Code:
	nmable control and the PAF used is 0.20	40.6-A. because the
installation meets all of the following requireme		
☐ i. The building is 10,000 square f		
- · · · · · · · · · · · · · · · · · · ·	t luminaires that qualify for other PAFs ma	ny also qualify for this
demand responsive control PAF.	crammanes that quality for other trias me	ry also quality for this
•	ole of being automatically reduced in respo	onse to a demand
response signal; and	ore or being dutomatically reduced in resp.	onse to a demand
· -	manner consistent with uniform level of i	llumination
requirements in TABLE 130.1-A; and	mainer consistent with announcever of t	
•	have not been used to comply with this re	guirement, and
·	ensity of less than 0.5 watts per square fo	•
counted toward the building's total ligh		
Sources contains the source of cotton ing.	em 8 berreit	
☐ 5. This installation qualifies for the PAF fo	r Combined Manual Dimming plus Partial-	ON Occupant Sensing
Control in TABLE 140.6-A because the installatio	n meets all of the following requirements:	
☐ a. The Combined Control is use in	n only the following space types:	
☐ i, An area ≤ 250 square feet encl	osed by floor-to-ceiling partitions	
☐ ii. A classroom of any size		
☐ iii. A conference room of any size		
☐ iv. A waiting room of any size		
☐ b. The lighting is controlled with	a control that can be manually operated b	y the user; and
\square c. The dimming component is on	e of the following:	
☐ i. A Dimming System w	th manual dimming; or	
☐ ii. A Multiscene Progran	nmable control	
☐ d. The Partial-ON Occupant Sens	ng component automatically deactivates a	all of the lighting power
in the area within 30 minutes after the	room has been vacated; and	
☐ i. The first stage automatically a	ctivates between 30-70 percent of the ligh	ting power in the area
☐ ii. The lighting control is a:		
Switching system, or		
☐ Dimming system; and		
☐ iii. The second stage manually act	ivates the alternate set of lights; and	
☐ iv. This manual-ON function is no	t capable of conversion from manual-ON	to automatic-ON
functionality via manual switches o	r dip switches; and	
\square v. Switches are located in accord	ance with Section 130.1(a)	
☐ vi. Occupants can manually do all	of the following regardless of the sensor s	status:
☐ Activate the alternate set	of lights; and	
☐ Activate 100 percent of the	e lighting power; and	
☐ Deactivate all of the lights		
☐ e. The PAF used is 0.25		
PART 3 PAF Minimum Requirements		
Charle all that are the		

Check all that apply:

STATE OF CALIFORNIA

	V E
IFORNIA ENERGY COMMISSION	4

EC-N	IRCI-LTI-05-E (Revised 07/14)	CALIFORNIA ENER	RGY COMMISSION			
CER'	TIFICATE OF INSTALLATION		NRCI-LTI-05-			
Pow	ver Adjustment Factors		(Page 4 of 5			
Project	t Name:	Enforcement Agency:	Permit Number:			
Project	t Address:	City:	Zip Code:			
	A. The lighting control used to earn the PAF is design	ned and installed in addition to all manua	l and automatic			
_	lighting controls otherwise required in 130.1(a) through		i, and automatic			
			or the cole number of			
	☐ EXCEPTION. The lighting control used to earn					
	compliance with Section 130.1(b)3, and this		n addition to all other			
_	manual, and automatic lighting controls other					
	B. Installed wattage has been determined in accord					
	C. Space types that qualify for the PAF comply with	• • • • • • • • • • • • • • • • • • • •				
	D. Self contained lighting controls used to earn the I					
	with the Appliance Efficiency Regulations, as verified		ing controls			
	E. A lighting control system is used to earn the PAF,	•				
	☐ When using a lighting control system to earn		icate for Energy			
	Management Control System and Lighting Co	•				
	F. The controls are permanently installed nonreside		nting, portable lighting			
	controls, and residential rated lighting controls shall	not qualify for PAFs.)				
	G. The controlled lighting used to earn this PAF is a	permanently installed general lighting sys	tem.			
	☐ Furniture mounted luminaires qualify as gene	ral lighting system for the purpose of earn	ning this PAF because			
	the general lighting is in an office, and the fur	niture mounted luminaires comply with a	ll of the following			
	conditions:					
	i. The furniture mounted luminaires have	been permanently installed no later than	the time of building			
	permit inspection; and					
	ii. The furniture mounted luminaires have					
	iii. The furniture mounted lighting system has been designed to provide indirect general lighting; andiv. Before multiplying the installed watts of the furniture mounted luminaire by the applicable PAF, 0.3					
		•	• •			
	watts per square foot of the area illuminated installed watts of the furniture mounted lumin		been subtracted from			
	H. At least 50 percent of the light output of the cont		rea listed in TABLE			
	140.6-A. Luminaires on lighting tracks are within the					
	I. Only one PAF from TABLE 140.6-A has been used					
	together unless specifically allowed in TABLE 140.6-A		lot been daded			
	L. Only lighting wattage directly controlled in accordance with Section 140.6(a)2 has been used to reduce the					
_	calculated actual indoor Lighting Power Densities as	• •	to reduce the			
	☐ Only a portion of the wattage in a luminaire is	•	a)2 and only that			
	portion of controlled wattage has been reduce	eu in calculating actual indoor Lighting PO	wei Delisity.			

STATE OF CALIFORNIA

POWER ADJUSTMENT FACTORS

CEC NPCLLTLOS E (Povised 07/14)

CALIFORNIA	ENERGY	COMMIS	NOISS

A OF CHESTA
200
Bear Causeys

CEC-NRCI-LTI-05-E (Revised 07/14)	CALIFORNIA ENER	RGY COMMISSION
CERTIFICATE OF INSTALLATION	TE OF INSTALLATION NRCI-LTI-05-E	
Power Adjustment Factors		(Page 5 of 5)
Project Name:	Enforcement Agency:	Permit Number:
Project Address:	City:	Zip Code:

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT			
1. I certify that this Certificate of Installation documentation is accurate and complete.			
Documentation Author Name:	Documentation Author Signature:		
Documentation Author Company Name:	Date Signed:		
Address:	CEA/ HERS Certification Identification (If applicable):		
City/State/Zip:	Phone:		

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

- 1. The information provided on this Certificate of Installation is true and correct.
- 2. I am eligible under Division 3 of the Business and Professions Code in the applicable classification to accept responsibility for the system design, construction, or installation of features, materials, components, or manufactured devices for the scope of work identified on this Certificate of Installation, and attest to the declarations in this statement (responsible builder/installer), otherwise I am an authorized representative of the responsible builder/installer.
- 3. The constructed or installed features, materials, components or manufactured devices (the installation) identified on this Certificate of Installation conforms to all applicable codes and regulations, and the installation conforms to the requirements given on the plans and specifications approved by the enforcement agency.
- 4. I understand that a HERS rater will check the installation to verify compliance, and that if such checking identifies defects; I am required to take corrective action at my expense. I understand that Energy Commission and HERS Provider representatives will also perform quality assurance checking of installations, including those approved as part of a sample group but not checked by a HERS rater, and if those installations fail to meet the requirements of such quality assurance checking, the required corrective action and additional checking/testing of other installations in that HERS sample group will be performed at my expense.
- 5. I reviewed a copy of the Certificate of Compliance approved by the enforcement agency that identifies the specific requirements for the scope of construction or installation identified on this Certificate of Installation, and I have ensured that the requirements that apply to the construction or installation have been met.
- 6. I will ensure that a completed signed copy of this Certificate of Installation shall be posted, or made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Installation is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Builder/Installer Name:	Responsible Builder/Installer Signature:	
Company Name: (Installing Subcontractor or General Contractor or Builder/Owner)	Position With Company (Title):	
Address:	CSLB License:	
City/State/Zip:	Phone	Date Signed:
Third Party Quality Control Program (TPQCP) Status:	Name of TPQCP (if applicable):	